# Translation

### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

••	r agent's file referenc -1597WO	FOR FUR	THER A	CTION	See Form PCT/IPEA/416					
		Y	CI: 1-	A- (J(	Priority date (day/month/year)					
	application No.		International filing date (day/month/year)  08.04.2004  Priority date (day/month/year)  15.04.2003							
	P2004/0050				13.04.2003					
International Patent Classification (IPC) or national classification and IPC										
Applicant										
YANAGA, Hiroko										
	<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>									
	4									
		npanied by ANNEXES, con	nprising:							
a.		pplicant and to the Internal		· · · · · · · · · · · · · · · · · · ·	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental									
	Вох.									
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))										
	, containing a sequence listing and/or tables									
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. Thi	s report contains indi	cations relating to the follow	wing iten	ns:						
$\boxtimes$	Box No. I	Basis of the report								
	Box No. II Priority									
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability									
	Box No. IV Lack of unity of invention									
$\boxtimes$	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	Box No. VI Certain documents cited									
	Box No. VII Certain defects in the international application									
	Box No. VIII Certain observations on the international application									
Date of subm	Date of submission of the demand  Date of completion of this report									
Name and m	niling address of the l	PEA/JP		Authorized officer						
	0									
Fracipile No.				Tolophone No.						

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/005071

Box	x No. I Basis of the report		<del>-</del>						
1.	With regard to the language, this report is based on the internal indicated under this item.	ational application in the language in	which it was filed, unless otherwise						
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:  international search (Rule 12.3 and 23.1(b))  publication of the international application (Rule 12.4)  international preliminary examination (Rule 55.2 and/or 55.3)								
2.	With regard to the elements of the international application, receiving Office in response to an invitation under Article 14 this report):  the international application as originally filed/furnished the description:  pages 1-5, 8-12	4 are referred to in this report as "o	_						
	pages* 6-7	received by this Authority on	02.11.2004						
	pages*	received by this Authority on							
	the claims:								
	nos. 1-6		as originally filed/furnished						
	nos.*	as amended (togethe	er with any statement) under Article 19						
	nos.*		•						
	nos.*								
		10001100 0) (1201101110111) 011							
	the drawings:								
	sheets 1/3-3/3		as originally filed/furnished						
		received by this Authority on							
	sheets*	received by this Authority on							
ļ	a sequence listing and/or any related table(s) – see Supp	lemental Box Relating to Sequence L	isting.						
3.	The amendments have resulted in the cancellation of:								
	the description, pages								
	the claims, nos.								
	the drawings, sheets/figs								
	the sequence listing (specify):								
	any table(s) related to sequence listing (specify):								
4.	This report has been established as if (some of) the am they have been considered to go beyond the disclosure a	is filed, as indicated in the Supplemen	ntal Box (Rule 70.2(c)).						
	the description, pages								
	the claims, nos.								
	the drawings, sheets/figs								
	the sequence listing (specify):								
	any table(s) related to sequence listing (specify):								
*	If item 4 applies, some or all of those sheets may be marked "	superseded."							

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/005071

Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement						
	Novelty (N)	Claims	1-6	YES			
		Claims		NO			
	Inventive step (IS)	Claims	1-6	YES			
		Claims		NO			
	Industrial applicability (IA)	Claims	1-6	YES			
		Claims		NO			
ł							

- 2. Citations and explanations (Rule 70.7)
  - Document 1: WO 02/012451 A1 (Hiroko Yanaga), 14 February 2002
  - Document 2: Igaku no Ayumi, 2002, Vol. 200, No. 3, pages 258 to 259
  - Document 3: N Engl J Med, 1994, Vol. 331, No. 14, pages 889 to 895

### Claims 1 to 6

The inventions set forth in claims 1 to 6 are novel and involve an inventive step in relation to documents 1 to 3 cited in the international search report.

Document 1 sets forth a method wherein a cartilage fragment is treated with trypsin, treated with type-II collagenase, and subjected to filtration, and the isolated cartilage cells are sown once or twice or more in a layered manner, and co-cultured with feeder cells to obtain human cartilage cell masses; and a cartilage treatment material comprising said cartilage cell masses and an enveloping material such as collagen.

Documents 2 and 3 set forth methods of single-layer cultivating cartilage cells isolated from human joint cartilage.

None of the documents mentioned above indicates that

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Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement											
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	perich	ond	rium,	and	said	featur	e woul	d not	be	obvious	to	a
	person	sk:	illed	in '	the a	rt.						
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